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conc'd
8. (Amended) A method according to claim 7 wherein said
insulating surface is a quartz substrate;.

REMARKS

Reconsideration and allowance of the above-referenced application are respectfully requested.

Claims 1-6 and 11-14 stand rejected over Yamazaki '235 in view of Zhang '936 and Zhang '121. The claims also stand rejected over Zhang '360 in view of Mizutani '785, and other claims stand rejected over Zhang '360 in view of Mizutani '785. All of these contentions are obviated by the amendment of the claims herewith to more distinctly define the features of the present invention.

Specifically, the present invention defines a crystal growth direction of a semiconductor crystalline film being aligned with a charge transfer direction. This is not taught or suggested by the cited prior art.

The rejection states correctly that Yamazaki '235 teaches a digital camera or an electronic camera. This has a function similar to a CCD camera. Zhang's '936 patent discloses crystallization with a catalytic material such as nickel. Zhang

'121 teaches columnar crystals. Zhang discloses crystal growth in a direction parallel with a substrate.

In contrast, the claimed invention specifies crystal direction in the same direction as the charge transfer direction of a charge coupled device. The crystal growth direction allows a continuous crystalline structure. In this way, the direction can be regarded as single crystal for moving carriers. This avoids the necessity for the carriers to flow across grain boundaries. Thus, when the charge transfer direction coincides with the crystal growth direction, the charge coupled device can have a higher efficiency.

The charge transfer direction and crystal growth direction of the claimed operation are aligned with each other to accomplish high carrier transfer efficiency. None of the references is any way suggestive of this feature. In fact, the cited references do not even note the low efficiency problem in the CCD. Therefore, it would not be obvious to combine the references as suggested by the rejection, since the references do not even suggest the problem.

Claims 16 and 19 stand rejected under 35 U.S.C. 103(a) as being obvious over Zhang in view of Mizutani. Claims 17, 18, and 20-23 stand rejected over Zhang in view of Mizutani.

All of these claims define the charge transfer direction being aligned with the crystal growth direction. This is not taught or suggested by any of the references, and as such, all of these claims should be in condition for allowance.

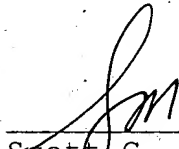
In view of the above amendments and remarks, therefore, all of the claims should be in condition for allowance. A formal notice to that effect is respectfully solicited.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: _____

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Scott C. Harris
Reg. No. 32,030

SCH/smr

Fish & Richardson P.C.
4225 Executive Square, Suite 1400
La Jolla, CA 92037
Telephone: (858) 678-5070
Facsimile: (858) 678-5099

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